

L Number	Hits	Search Text	DB	Time stamp
-	5	ferrick-david-a.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/14 13:10
-	4	swift-susan-e.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/14 13:10
-	3	armstrong-randall.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/14 13:10
-	5	fox-bryan.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/14 13:10
-	0	epsilon same heavy same chain same identific\$6 same fluores\$6	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/14 13:11
-	13	epsilon same heavy same chain same fluores\$6	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/14 13:14
-	178	chimeri\$5 same immunoglobulin same fluores\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/14 13:14
-	0	chimeri\$5 same immunoglobulin same fluores\$4 same identific\$6	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/14 13:15
-	10	chimeri\$5 same immunoglobulin same fluores\$4 same ident\$6	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/14 13:17
-	3267	ige same production	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/14 13:17
-	2	ige same production same fluor\$8 same fusion same heavy same chain	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/14 13:17

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NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 SEP 09 CA/Caplus records now contain indexing from 1907 to the
present
NEWS 4 DEC 08 INPADOC: Legal Status data reloaded
NEWS 5 SEP 29 DISSABS now available on STN
NEWS 6 OCT 10 PCTFULL: Two new display fields added
NEWS 7 OCT 21 BIOSIS file reloaded and enhanced
NEWS 8 OCT 28 BIOSIS file segment of TOXCENTER reloaded and enhanced
NEWS 9 NOV 24 MSDS-CCOHS file reloaded
NEWS 10 DEC 08 CABA reloaded with left truncation
NEWS 11 DEC 08 IMS file names changed
NEWS 12 DEC 09 Experimental property data collected by CAS now available
in REGISTRY
NEWS 13 DEC 09 STN Entry Date available for display in REGISTRY and CA/Caplus
NEWS 14 DEC 17 DGENE: Two new display fields added
NEWS 15 DEC 18 BIOTECHNO no longer updated
NEWS 16 DEC 19 CROPU no longer updated; subscriber discount no longer
available
NEWS 17 DEC 22 Additional INPI reactions and pre-1907 documents added to CAS
databases
NEWS 18 DEC 22 IFIPAT/IFIUDB/IFICDB reloaded with new data and search fields
NEWS 19 DEC 22 ABI-INFORM now available on STN

NEWS EXPRESS DECEMBER 28 CURRENT WINDOWS VERSION IS V7.00, CURRENT
MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
AND CURRENT DISCOVER FILE IS DATED 23 SEPTEMBER 2003
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=> file medline biosis embase caplus
COST IN U.S. DOLLARS

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0.21	0.21

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```
=> s epsilon (s) heavy (s) chain (s) fusion (s) fluor?
L2      0 EPSILON (S) HEAVY (S) CHAIN (S) FUSION (S) FLUOR?
```

=> d l3⁴ ibib kwic

L3 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1995:346862 CAPLUS
DOCUMENT NUMBER: 122:98784
TITLE: Screening for genes encoding target peptide-cleaving
catalytic antibodies
INVENTOR(S): Davis, Claude Geoffrey; Fabian, Gary Robert
PATENT ASSIGNEE(S): Catalytic Antibodies, USA
SOURCE: PCT Int. Appl., 77 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9424278	A1	19941027	WO 1993-US3408	19930409
W: CA, JP				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2159724	AA	19941027	CA 1993-2159724	19930409
CA 2159724	C	20020226		
EP 695353	A1	19960207	EP 1993-912194	19930409
EP 695353	B1	20011212		
R: AT, BE, CH, DE, DK, ES, FR, GB, IE, IT, LI, LU, NL, SE				
JP 08511417	T2	19961203	JP 1993-523068	19930409
AT 210724	E	20011215	AT 1993-912194	19930409
PRIORITY APPLN. INFO.:			WO 1993-US3408	A 19930409

PRIORITY APPLN. INFO.: WO 1993-US3408 A 19930409
AB Methods are presented for screening for or selecting catalytic antibodies effective in the cleavage of a target peptide. A phage gene is selected that encodes a gene product necessary for the prodn. of a phage; this gene is modified by introducing the target peptide-coding sequence into the gene such that the resulting gene product (1) inhibits prodn. of infectious phage and (2) cleavage of the target peptide results in an active gene product that allows prodn. of infectious phage. The phage carrying the modified gene is introduced into host cells. Also, a library of rearranged Ig genes in a cloning vector is introduced into host cells. The host cells are grown under conditions in which the Ig genes are

expressed. The presence of antibodies capable of cleaving the target peptide is identified on the basis of prodn. of phage. Thus, a combinatorial Fab expression library is screened for the presence of a catalytic antibody that cleaves IgE in such a way as to sep. the antigen-binding domain from the Fc receptor-binding domain. The target peptide used as substrate consists of residues 235-253 in the .
epsilon. heavy chain domain C.epsilon

.2. Synthetic cDNA coding for the peptide is inserted in-frame into plasmids contg. (1) the cDNA for the **heavy chain** of a mouse anti-rat IgG2b monoclonal antibody and (2) the cDNA for the **heavy chain** of a rat anti-mouse IgG2b monoclonal antibody. Antibodies which cleave the target peptide sequence cause the recombinant IgG mols. to break apart, resulting in the formation of a clear plaque in an otherwise turbid layer. Similarly, the combinatorial Fab expression library can be screened by released reporter methods or free amino **fluorescence** methods. In another example, the IgE target peptide is ligated into an in-frame **fusion** between a lambda phage temp.-sensitive cro protein and the Escherichia coli colicin E1 immunity protein. Peptide vectors can also be generated from bacteriophage M13K07 in which the signal peptidase cleavage site of gene III is modified.

```
=> s chimer? (s) immunoglobulin (s) ige
L4      126 CHIMER? (S) IMMUNOGLOBULIN (S) IGE

=> s chimer? (s) immunoglobulin (s) ige (s) fluor?
L5      1 CHIMER? (S) IMMUNOGLOBULIN (S) IGE (S) FLUOR?

=> dup rem l4
PROCESSING COMPLETED FOR L4
L6      104 DUP REM L4 (22 DUPLICATES REMOVED)

=> s (chimer? (s) immunoglobulin (s) ige) (p) fluor?
L7      1 (CHIMER? (S) IMMUNOGLOBULIN (S) IGE) (P) FLUOR?

=> s (chimer? (s) immunoglobulin (s) ige) (p) fas
L8      0 (CHIMER? (S) IMMUNOGLOBULIN (S) IGE) (P) FAS

=> s (chimer? (s) immunoglobulin (s) ige) (p) reporter
L9      3 (CHIMER? (S) IMMUNOGLOBULIN (S) IGE) (P) REPORTER

=> dup rem l9
PROCESSING COMPLETED FOR L9
L10     1 DUP REM L9 (2 DUPLICATES REMOVED)

=> d l10 ibib kwic
```

```
L10  ANSWER 1 OF 1      MEDLINE on STN      DUPLICATE 1
ACCESSION NUMBER:      96200104      MEDLINE
DOCUMENT NUMBER:       96200104      PubMed ID: 8631711
TITLE:                  Surface display of a functional single-chain Fv antibody on
                        staphylococci.
AUTHOR:                  Gunneriusson E; Samuelson P; Uhlen M; Nygren P A; Stahl S
CORPORATE SOURCE:       Department of Biochemistry and Biotechnology, Royal
                        Institute of Technology, Stockholm, Sweden.
SOURCE:                  JOURNAL OF BACTERIOLOGY, (1996 Mar) 178 (5) 1341-6.
                        Journal code: 2985120R. ISSN: 0021-9193.
PUB. COUNTRY:           United States
DOCUMENT TYPE:           Journal; Article; (JOURNAL ARTICLE)
LANGUAGE:                English
FILE SEGMENT:            Priority Journals
OTHER SOURCE:            GENBANK-U15516; GENBANK-U38693
ENTRY MONTH:             199607
```

ENTRY DATE:

Entered STN: 19960715

Last Updated on STN: 19960715

Entered Medline: 19960703

- AB Two different host-vector expression systems designed for cell surface display of **chimeric** receptors on *Staphylococcus xylosus* and *Staphylococcus carnosus* have been evaluated for surface display of a mouse **immunoglobulin** G1(kappa) [IgG1(kappa)] anti-human **IgE** single-chain Fv (scFv) antibody fragment. To achieve surface anchoring of the chimeric receptors containing the scFv, the cell surface attachment. . . extracts of both *S. xylosus* and *S. carnosus*, and surface localization was demonstrated by taking advantage of a serum albumin-binding **reporter** region present within the two types of receptors. In addition, the two different recombinant staphylococci carrying hybrid receptors containing the. . .